

## 27: RHODOSPIRILLACEAE MEDIUM (modified)

This recipe contains strain-specific modifications for *Rhodoplanes roseus* DSM 5909 \*

Yeast extract	0.30	g
Disodium succinate	1.00	g
Ammonium acetate	0.50	g
Fe(III) citrate (0.1% in H <sub>2</sub> O)	5.00	ml
KH <sub>2</sub> PO <sub>4</sub>	0.50	g
MgSO <sub>4</sub> × 7 H <sub>2</sub> O	0.40	g
NaCl	0.40	g
NH <sub>4</sub> Cl	0.40	g
CaCl <sub>2</sub> × 2 H <sub>2</sub> O	0.05	g
Vitamin B <sub>12</sub> (10 mg in 100 ml H <sub>2</sub> O)	0.40	ml
<b>Trace element solution SL-6</b>	1.00	ml
L-Cysteine HCl	0.30	g
Resazurin (0,1%)	0.50	ml
Yeast extract	0.10	g/l
Distilled water	1000.00	ml

1. Adjust pH to 6.8.
2. Boil the medium for a few minute. Bubble the medium with nitrogen gas and fill 10 ml in 15 ml tubes with a rubber septum under a stream of nitrogen gas. Autoclave at 121°C for 15 min. Sterile syringes are used to inoculate and remove samples.
3. Incubate in the light using a tungsten lamp.

\* With 0.01% yeast extract; anaerobic in light

### Trace element solution SL-6 (from medium 27)

ZnSO <sub>4</sub> × 7 H <sub>2</sub> O	0.10	g
MnCl <sub>2</sub> × 4 H <sub>2</sub> O	0.03	g
H <sub>3</sub> BO <sub>3</sub>	0.30	g
CoCl <sub>2</sub> × 6 H <sub>2</sub> O	0.20	g
CuCl <sub>2</sub> × 2 H <sub>2</sub> O	0.01	g
NiCl <sub>2</sub> × 6 H <sub>2</sub> O	0.02	g
Na <sub>2</sub> MoO <sub>4</sub> × 2 H <sub>2</sub> O	0.03	g
Distilled water	1000.00	ml